





## HUB UNIT WITH ROTATION SPEED SENSOR

**Patent number:** KR165925  
**Publication date:** 1999-03-20  
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**Classification:**  
 - international: G01P3/48  
 - european: G01P3/44B  
**Application number:** KR19950021054 19950718  
**Priority number(s):** JP19940189276 19940811; JP19950133598 19950531;  
 JP19940165633 19940718

**Also published as:**

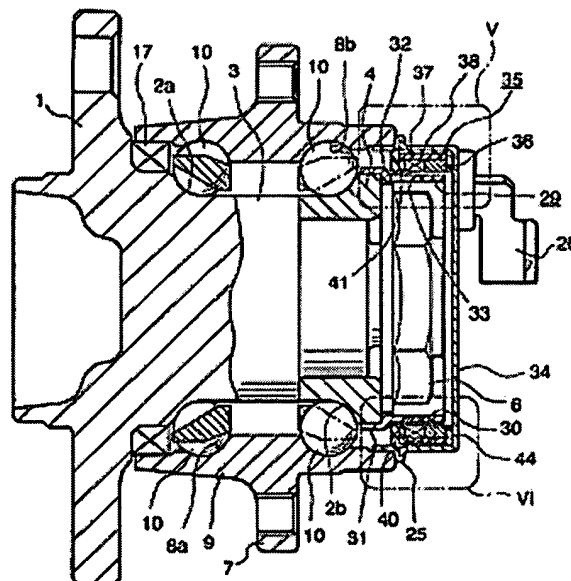
 E P0693689 (A1)  
 US 5583431 (A1)  
 J P8105908 (A)  
 E P0693689 (B1)

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Abstract not available for KR165925  
 Abstract of corresponding document: **EP0693689**

A hub unit with a rotation speed sensor (35) is described comprising a stationary outer ring member (9) having an outer raceway (8) formed thereon, a rotatable hub (3) having an axially inner end with a male thread portion formed thereon, an inner ring member (4) having an inner raceway (2b) formed thereon, and fittingly fixed onto the hub (3), a nut (6) screwed on the male thread portion of the hub (3) to axially retain the inner ring (4), a plurality of rolling members (10) located between the outer raceway (8) and the inner raceway (2), a cover (34) fittingly fixed to the outer ring member (9) at its opening end portion, an annular sensor (35) supported by the cover (34) so as to be located radially between the nut (6) and the cover (34), a rotatable tone wheel (29) made of magnetic material and fittingly fixed onto the inner ring (4), the sensor (35) comprising an annular permanent magnet (36), a magnetic stator (37) and a coil (38), so that the sensor (35) is opposed generally circumferentially to part of the tone wheel (29) with a small clearance therebetween. <MATH>

**FIG. 4**



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